

## **APRIL 19-20, 2017 PANEL MEETING LIST OF READING MATERIALS**

Below is recommended reading for the April 2017 meeting. The section under high priority is the quickest path to being prepared and getting the you ready to answer the charge questions. “Must reads” are highlighted in yellow.

Note that we only received one set of written comments, but stakeholder felt that the Panel members should revisit the compendium of stakeholder comments on the Nutrient Objectives science plan and the June 2015 Panel findings as good review –these issues are going to carry over.

### **High Priority: Science Plan to Support Biostimulatory-Biointegrity Project in Wadeable Streams, with detailed work plan as appendices:**

- Wadeable Streams Science Plan Spring 2017
  - Science Plan document
  - Presentation to stakeholders December 22, 2016 SAG meeting
- Stakeholder concerns/issues with science plan
  - Comments on Biointegrity- Biostimulatory Science Plan March 31 2017
  - Summary of stakeholder comments on 2015 Biostimulatory Science Plan
  - B. Bernstein, Presentation on stakeholder concerns for Biostimulatory Science Plan- June 2015
  - 2015 Biostimulatory Panel Findings -June 2015 Report
- Biological Condition Gradient Model
  - Work Plan document
  - Excerpts from Recorded Presentations –BCG Overview (optional)
- Development of an Algal Stream Condition Index
  - Work Plan document
  - Presentation – Intro to the California Bioassessment Program (R. Mazor October 26, 2017)
  - March 30<sup>th</sup>, 2017 Presentation
  - March 30<sup>th</sup> 2017 recorded webinar webinar (optional) - <https://files.acrobat.com/a/preview/b4c835ca-5562-4909-ae94-047505d16f43>
- Predicting Bioassessment Index Scores Across a Gradient of Development in California Landscapes
  - Work plan document
  - R. Mazor, Presentation – March 17, 2017
  - Recorded presentation – March 17, 2017 (optional) – This is from an all day meeting, so fast forward to 1:42:30 <https://files.acrobat.com/a/preview/abe1192b-b92c-426f-b326-5acd52a02cc2>
- Statistical approach to modeling relationship between bioassessment indices and eutrophication stress gradients
  - [section in science plan]
  - R. Mazor, Presentation - March 17, 2017
  - Recorded presentation – March 17, 2017 (optional) - This is from an all-day meeting, so fast forward to minute 27:00 <https://files.acrobat.com/a/preview/abe1192b-b92c-426f-b326-5acd52a02cc2>

### **Foundational Technical Products**

### *CSCI and Algal IBI*

- Mazor, et al. 2016. Bioassessment in complex environments: Designing an index for consistent meaning in different settings. *Freshwater Science* 35(1): 249-271
- Fetscher, et al. 2014a. Development and comparison of stream indices of biotic integrity using diatoms vs. non-diatom algae vs. a combination. *Journal of Applied Phycology* 26:433-450.

### *Bioassessment Index Reference*

- Ode et al. (2016) Evaluating the adequacy of a reference site pool for ecological assessments in environmentally complex regions. *Freshwater Science* 35:1, 237-248.

### *Eutrophication Threshold Science*

- Fetscher, A.E., M.A. Sutula, A. Sengupta and N. Detenbeck. 2014. Improving Tools to Link Nutrients to Adverse Effects on Stream Ecosystem Services in California. U.S. EPA Office of Research and Development Regional Ecosystem Services Research Program (REServe). [http://cfpub.epa.gov/si/si\\_public\\_record\\_report.cfm?dirEntryID=274010](http://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryID=274010)

## **Documents Relevant for Policy Context**

### **History of Nutrient Objective Development in California**

- Tetra Tech 2006. Technical Approach to Develop Nutrient Numeric Endpoints for California. Prepared for: U.S. EPA Region IX (Contract No. 68-C-02-108-To-111). [www.swrcb.ca.gov/water\\_issues/programs/nutrient\\_objectives/development/docs/techa\\_pproach\\_freshwater2006.pdf](http://www.swrcb.ca.gov/water_issues/programs/nutrient_objectives/development/docs/techa_pproach_freshwater2006.pdf)
- State Water Resources Control Board 2014. Proposed Workplan for Development of a Nutrient Control Program. [www.waterboards.ca.gov/plans\\_policies/nutrients.shtml](http://www.waterboards.ca.gov/plans_policies/nutrients.shtml)
- State Water Resources Control Board 2011. CEQA Scoping Meeting for Proposed Nutrient Policy. [www.waterboards.ca.gov/plans\\_policies/nutrients.shtml](http://www.waterboards.ca.gov/plans_policies/nutrients.shtml)

### **History of Biointegrity Policy Development and Previous Science Panel and Advisory Group Meetings**

State Water Board website that is the clearinghouse for all biointegrity policy and science documents:

[www.waterboards.ca.gov/plans\\_policies/biological\\_objective.shtml](http://www.waterboards.ca.gov/plans_policies/biological_objective.shtml)